

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT
(PCT Article 36 and Rule 70)

RECD. 10 JAN 2005

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Applicant's or agent's file reference P16731-TPF	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/EP 03/03539	International filing date (day/month/year) 04.04.2003	Priority date (day/month/year) 04.04.2003
International Patent Classification (IPC) or both national classification and IPC H04L29/06		
Applicant TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) et al		

1. This International preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 6 sheets, including this cover sheet.
 - This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:
 - I Basis of the opinion
 - II Priority
 - III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 - IV Lack of unity of invention
 - V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - VI Certain documents cited
 - VII Certain defects in the international application
 - VIII Certain observations on the international application

Date of submission of the demand 18.10.2004	Date of completion of this report 07.01.2005
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EXAMINATION REPORT**

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I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

Description, Pages

1-32 as originally filed

Claims, Numbers

1-31 as originally filed

Drawings, Sheets

1/3-3/3 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- the language of publication of the international application (under Rule 48.3(b)).
- the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- contained in the international application in written form.
- filed together with the international application in computer readable form.
- furnished subsequently to this Authority in written form.
- furnished subsequently to this Authority in computer readable form.
- The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- the description, pages:
- the claims, Nos.:
- the drawings, sheets:

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5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	1-31
	No:	Claims	-
Inventive step (IS)	Yes:	Claims	1-31
	No:	Claims	-
Industrial applicability (IA)	Yes:	Claims	1-31
	No:	Claims	-

2. Citations and explanations

see separate sheet

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Re Item V

Reasoned statement under Article 35(2) PCT with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1 The following documents cited in the International Search Report are referred to in this communication:
 - D1: PATEL B ET AL: "Ticket Based Service Access for the Mobile User", 1997, XP000900778
 - D2: WO 02/076078 A (SONERA SMARTTRUST LTD; ALMGREN FREDRIK (SE)) 26 September 2002 (2002-09-26)
- 2 The present invention relates to a method (**claim 1**), apparatuses (**claims 12, 19, and 22**), and computer programs (**claims 28-30**) for access provision in terms of principal-related profile data.
- 3 The subject-matter of the present application appears to be novel and inventive over the cited prior art (Article 33(2) and (3) PCT) and therefore meets the criteria mentioned in Article 33(1) PCT.
 - 3.1 Document **D1**, which is considered as closest prior art, discloses with regard to **claim 1**:

A method for provision of access for a data requesting entity ("Client (C)") to resources comprising the steps:

 - (a) creating an access granting ticket comprising
 - (a1) an access specification ("resource request") specifying a permission for an access to resources (see page 227, left-hand column, item 1; Fig. 1, ref. 1) being available at a data providing entity ("Service Server (S)");
 - (b) encrypting the access granting ticket with an encryption key of the data providing entity (see page 227, right-hand column, item 4; Fig. 1, ref. 4);
 - (c) communicating to the data requesting entity ("C") the encrypted access granting ticket (Fig. 1, ref. 4);
 - (d) communicating from the data requesting entity ("C") to the data providing entity ("S") a request ("service request") comprising the encrypted access granting ticket (see page 228, left-hand column, item 2; Fig. 2, ref. 2);

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- (e) decrypting the encrypted access granting ticket with a decryption key of the data providing entity ("S") corresponding to the encryption key (page 227, right-hand column, item 4: "...where...is a shared secret and hash of the ticket encoded onto the ticket. It can only be read by the server.");
- (f) providing to the data requesting entity ("C") access to resources according to the access specification (see page 228, left-hand column, item 3; Fig. 2, ref. 3).

3.2 As a result, the subject-matter of **claim 1** differs from that of document **D1** in that the data or service to which access is requested and obtained is related to a principal and that the access granting ticket sent from the data requesting entity to the data providing entity additionally comprises a corresponding principal identifier representing the principal.

3.3 Therefore, the objective problem underlying **claim 1** is regarded as how to dynamically and securely obtain user profile data in response to a user service access request.

3.4 In view of the teachings of document **D1**, the person skilled in the art would not arrive at the proposed solution to the above-mentioned problem since in **D1** the ticket-based service request is related to a resource request being serviced by a server and no hint or incentive is given for maintaining and providing user profile data at the service server.

3.5 Equally, the document **D2** neither alone nor in combination with **D1** discloses or suggests the subject-matter of **claim 1** since its content is related to a conventional ticket-based access system based on asymmetric cryptography without processing profile-based user data.

4 In the light of the above-mentioned reasons regarding independent method **claim 1**, the subject-matter of independent apparatus **claims 12, 19, and 22** as well as independent computer program **claims 28-30** is also considered novel and inventive, since it is directed towards corresponding complementary units.

5 However, the present application does not meet the requirements of Article 6 PCT since

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claim 31 comprises multiple dependencies on multiple claims, thereby rendering the subject-matter of this claim unclear.